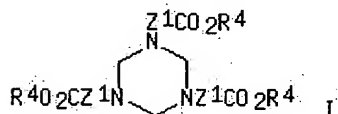


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 ENTRY DATE: Entered STN: 26 Dec 1986
 TITLE: (Phosphonomethyl)-amino acids
 INVENTOR(S): Puig Ibanez, Pedro; Merino Coloma, Fernando
 PATENT ASSIGNEE(S): Spain
 SOURCE: Span., 14 pp. Patent of Importation.
 CODEN: SPXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Spanish
 INT. PATENT CLASSIF.:
 MAIN: C07F009-40
 CLASSIFICATION: 34-2 (Amino Acids, Peptides, and Proteins)
 Section cross-reference(s): 5, 28, 29
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ES 522989	A3	19850701	ES 1983-522989	19830604 <--
PRIORITY APPLN. INFO.:			ES 1983-522989	19830604

GRAPHIC IMAGE:



ABSTRACT:

Acids and esters R¹OP(O)(OR²)CH₂NHCH₂CO₂R³ (R¹, R² = H, alkyl, aryl; R³ = H alkyl; Z₁ = alkylene, cycloalkylene, etc.), useful as herbicides (no data), were prep'd. from the resp. s-triazines I (R¹ = alkyl, alkali metal) and phosphite diesters. I (Z₁ = CHMe, R⁴ = Et) was heated with HP(O)(OEt)₂ at 80° to give (EtO)₂P(O)CH₂NHCHMeCO₂Et.

SUPPL. TERM: phosphonomethyl amino acid prepn herbicide; triazine
 carboxalkylhexahydro ring cleavage; ring cleavage
 carboxalkylhexahydrotriazine phosphite
 INDEX TERM: Ring cleavage
 (of tris(carboxyalkyl)hexahydrotriazines by phosphite
 diesters, N-(phosphonomethyl) amino acids from)
 INDEX TERM: Herbicides
 (N-(phosphonomethyl) amino acids)
 INDEX TERM: Amino acids, preparation
 ROLE: SPN (Synthetic preparation); PREP (Preparation)
 (N-(phosphonomethyl), prepn. of, as herbicides)
 INDEX TERM: 107-95-9 4138-35-6
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of, with formaldehyde)
 INDEX TERM: 50-00-0, reactions
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of, with β-alanine)
 INDEX TERM: 73264-54-7P 77526-16-0P
 ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)

(prepn. and ring cleavage of, by phosphite diester)

INDEX TERM: 77526-05-7P 77526-08-0P 77526-11-5P 77526-15-9P
78113-42-5P 78113-44-7P 78113-45-8P 78113-47-0P
78113-48-1P 78113-49-2P 78113-50-5P
ROLE: AGR (Agricultural use); SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

INDEX TERM: 762-04-9 1809-20-7
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage by, of tris(carboxyalkyl)hexahydrotriazine
s)

INDEX TERM: 77526-17-1 77526-20-6 77526-21-7 78113-43-6
78113-46-9
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of, by phosphite diester)